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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/706,104	11/12/2003	Douglas Craig Scott	9118M	5134
27752 7590 09/02/2010 THE PROCTER & GAMBLE COMPANY Global Legal Department - IP Sycamore Building - 4th Floor 299 East Sixth Street CINCINNATI, OH 45202				
EXAMINER				
GEMBEH, SHIRLEY V				
ART UNIT		PAPER NUMBER		
1628				
MAIL DATE		DELIVERY MODE		
09/02/2010		PAPER		

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

### Office Action Summary

**Application No.**

10/706,104

**Applicant(s)**

SCOTT ET AL.

**Examiner**

SHIRLEY V. GEMBEH

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 8/9/10.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 18-20, 24-29, 31, 32, 34 and 36 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 18-20, 24-29, 31-32, 34 and 36 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

**DETAILED ACTION**

***Continued Examination Under 37 CFR 1.114***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 8/9/10 has been entered.
2. Applicant's arguments filed 8/9/10 have been fully considered but they are not deemed to be persuasive.
3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
4. Claims 18-20, 24-29, 31-32, 34 and 36 are pending in this office action.
5. The rejection of claims 18-20, 24-29 and 31 under 35 U.S.C. 102(e) as being anticipated by Lawlor (US 6,706,256) is withdrawn due to the amendment of the claims which necessitated the 103 rejection below.

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6. The rejection of claims 18-20, 24-29, 31-32, 34 and 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lawlor (US 6,706,256) is withdrawn due to the amendment of the claims cancelling pectin and insoluble polymers from the claims. Therefore a new rejection is set forth below.

***Claim Rejections - 35 USC § 103***

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 18-20, 24-29, 31-32, 34 and 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lawlor (US 6,706,256) in view of Courtright et al. (US Patent 4,931,295).

Lawlor teaches an oral care formulation (dentifrice) comprising of hydroxyethyl cellulose (HEC) and water soluble salts of cellulose such as carboxymethyl cellulose (CMC) in the amount of 0.1%-15% (as required by instant claims 18, 28, 32 and 34; see col. 21, lines 45-56) and a flavoring agents, and abrasives (as required by instant claim 18(b); see col. 18, lines 1-10). Intrinsically, buffering and or providing sustained delivery would be apparent when the Lawlor's oral formulation is chewed. Therefore, Lawlor's formulation when chewed is expected to form a hydrated mass that will be visible on 2-3 molars of the teeth or greater for at least 5 mins (as it also relates to claims 18 and 19; see also col. 17, lines 19-32). Lawlor teaches a non-cariogenic composition (see col. 20, lines 43-55) having the same structural components claimed. Therefore, Lawlor's composition will function the same as the claimed composition (i.e., remain on the tooth for more than 5 mins), absent factual evidence to the contrary. The limitations such as brushing with a manual flat head, soft tooth brush for 30 seconds expectorates the slurry and rinsing with 10 ml water and expectorate again is recitation of the intended use. It should be noted that the composition must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. In the instance case since Lawlor et al. teach the same composition it must be capable of performing the intended use, therefore, meets the claim intended use as required by instant claims 18-19, 20, 28, 32 and 34.

Lawlor also teaches the composition comprises additional agents such as H-2 antagonists, anticalculus, fluoride ions (as required by instant claims 24 and 25; see col. 9, lines 59-67) in a compressed tablet (as required by instant claim 26; see col. 15, lines 46-48). With the limitation wherein the composition is non-effervescent, it is anticipated that chewing gum and hard candies are non-effervescent, thus the limitation of instant claims 26-27 and 31 is met. Lawlor further teaches the oral composition comprises a buffering agent wherein the buffering agents have a pH of 3-10. Therefore when chewed the composition will buffer the oral cavity within the recited claimed limitations (as required by instant claims 28-29, see col. 22, lines 1-16).

Lawlor further teaches the oral composition comprises metal cation salts which are water insoluble salts less than 2% of insoluble particulates (i.e., less than 65%; see col. 12, lines 56-60 and col. 14, lines 36-40 as required by instant claim 28).

Applicant should note that "products of identical chemical composition can not have mutually exclusive properties." A chemical composition and its properties are inseparable. Therefore, if the prior art teaches the identical chemical structure, the properties applicant discloses and/or claims are necessarily present. In *re Spada*, 911 F.2d 705, 709, 15 USPQ2d 1655, 1658 (Fed. Cir. 1990), "Where the claimed and prior art products are identical or substantially identical in structure or composition, or are produced by identical or substantially identical processes, a prima facie case of either anticipation or obviousness has been established. In *re Best*, 562 F.2d 1252, 1255, 195 USPQ 430, 433 (CCPA 1977). "When the PTO shows a sound basis for believing that

the products of the applicant and the prior art are the same, the applicant has the burden of showing that they are not." See MPEP 2112.01.

However, Lawlor fails to teach the specific combinations of a retentive agent as 4-15% HEC and from about 3-10% CMC (as required by instant claim 18) nor does Lawlor teach the specific percentages of HEC as 7% and 4% of CMC (as required by instant claims 28, 32, 34 and 36).

Courtright teaches an oral dentifrice (i.e., a chewing gum) comprising hydroxypropylcellulose (see abstract) in an amount ranging from 5-40% or 10-20% (see col. 4, lines 50-64, as required by instant claim 18a) and further comprises a flavoring agent, ( as required by instant claim 18b, see col. 9, lines 59-67) wherein the retention modifier is zein in the range of 5-40% (see col. 6, lines 44-48, as required by instant claim 18c) in the form of pellets which reasonable reads on tablets as required by the claim 18.

Even though Lawlor fails to teach the specific percentages of HEC and CMC (as required by instant claims 18, 24, 32, 34 and 36 ) based on the teachings of Lawlor, (i.e., the oral care formulation (dentifrice) comprises 0.1%-15% of HEC and CMC), one of ordinary skill in the art would have been motivated to optimize the ratio of HEC and CMC in the composition so that when chewed will form a hydrated mass that will be visible on 2-3 molars or greater for at least 5 mins. Specifically Lawlor teaches that "the methods are improved the longer the composition remains in the oral cavity". Therefore, one of ordinary skill in the art would be motivated to formulate a composition with HEC and CMC that would reasonably stay in the oral cavity (on the teeth) for a

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longer period of time because Lawlor teaches that it is preferred that the compositions are formulated to encourage the consumer to retain them in the cavity (see col. 24, lines 39-45). Thus it is reasonable that one of ordinary skill in the art would be motivated to determine the amount of HEC with CMC that shows the optimum therapeutic index to get the maximum effect of the drug, hence the Lawlor makes obvious the instant invention.

Additionally one of ordinary skill in the art would have been motivated to expand the oral dentifrice composition of Lawlor to include the retention modifier taught by Courtright for providing a less crunchy perception of the tablet/gum. Because Both Lawlor and Courtright teach the required limitation of the base claim, one skilled in the art would have easily expected that the combination by including zein into Lawlor's composition would have reasonably resulted in a success.

Therefore the combination would have been prima facie obvious at the time the invention was made.

8. No claim is allowed.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to SHIRLEY V. GEMBEH whose telephone number is (571)272-8504. The examiner can normally be reached on 8:30 -5:00, Monday- Friday.



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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Brandon Fetterolf** can be reached on 571-272-2919. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/S. V. G./  
Examiner, Art Unit 1618  
08/26/10

/Robert C. Hayes/  
Primary Examiner, Art Unit 1649